DOCUMENT RESUME

ED 362 703 CE 064 728

TITLE	Advanced Technology Tech Prep Partnership for Northern Kane Regional Delivery System. Final Report.
INSTITUTION	Elgin Community Coll., Ill.
SPONS AGENCY	Illinois State Board of Education, Springfield. Dept. of Adult, Vocational and Technical Education.
PUB DATE	Jul 92
NOTE	23p.; For the 1990-1991 report, see ED 347 352.
PUB TYPE	Reports - Descriptive (141)
EDRS PRICE	MF01/PC01 Plus Postage.
DESCRIPTORS	Articulation (Education); *Community Colleges; *High Schools; Integrated Curriculum; *Partnerships in Education; Program Development; *Regional Planning; *Technological Advancement; Two Year Colleges; *Vocational Education
IDENTIFIERS	Elgin Community College IL; *Tech Prep

ABSTRACT

A 1-year project was undertaken to continue implementation, evaluation, and revision of a model advanced technology partnership between Elgin Community College (ECC) and the Northern Kane Regional Delivery System in Illinois. The model program, which originally included three high schools, was expanded to include five additional high schools in three school districts. Tech prep program enrollment was increased from 13 high school seniors during the pilot year to 43 seniors during FY92, and 5 additional programs (in child care, electronics, heating/air-conditioning, machine tools/computer-aided manufacturing, and welding) were added to the 2 pilot-year programs (automotive and computer-aided design/drafting). Other major project accomplishments included additional planning and coordination meetings, an agreement to use area vocational school facilities for program activities, and additional solicitation of community and industry support (including scholarships and summer internship opportunities). Thirty-nine students successfully completed the FY92 program year, and 69% of them planned to return to ECC to complete its associate degree program. Various program materials, including marketing brochures, student handbooks, and guidance planning sheets, were developed. (Application/information sheets for each of the seven Tech Prep programs are appended.) (MN)

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ED 362 703

ECC/DISTRICT #300

Advanced Technology
Tech Prep Partnership for
Northern Kane Regional
Delivery System

ILLINOIS STATE BOARD OF EDUCATION

Thomas L. Burroughs,
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Education

DEPARTMENT OF ADULT, VOC., AND TECHNICAL EDUCATION

July, 1992

Project Staff

Administrative:
Donald Kinzy, Director
Lloyd Cundiff, Coordinator

Developers:
Donald Kinzy, ECC
Fred Fox, District #300

Department of Math,
Science, & Advanced
Technology
Elgin Community College
1700 Spartan Drive
Elgin, IL 60123-7193

The Tech Prep Partnership was funded through DAVTE utilizing Carl Perkins funding.
The funding agreement number - JMAA110
The funding agreement amount - $80,000

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FINAL REPORT ABSTRACT

Official Project Title: ECC/Tech Prep Partnership for Northern Kane Regional Delivery System

Department of Adult, Vocational, and Technical Education Funding Agreement Number: JMAA110

Project Director: Dr. Donald Kinzy

Funded Agency: Elgin Community College

Location of Funded Agency: 1700 Spartan Drive, Elgin, IL 60123

Time Period Covered: July 1, 1991 - June 30, 1992

Goal(s) of the Project and its Relevancy to Vocational Education:

- This project will continue to implement, evaluate, and revise the model Advanced Technology Partnership between ECC and District #300 (three high schools) and to integrate academic and technical skills in Tech Prep education that are cost-effective and sequenced.
- This project will be expanded to include five additional high schools in three school districts to strengthen Tech Prep education in the #509 District.
- This project will articulate high school courses with community college courses and state university courses to allow students in a Tech Prep track to have the best of both worlds.
- This project will continue soliciting input from local business and industry to develop specific credentials needed in the community. In addition, it will be the intent of this program to continue soliciting internships and experimental learning opportunities for students enrolled in the program.
- This project will disseminate successful components throughout Illinois to address the state-wide need of a better prepared work force while maximizing vocational education preparation and training resources.

Major Accomplishments of the Project:

- Tech Prep program enrollment grew from 13 seniors during the pilot year to 43 starting seniors fiscal year '92. Enrollment also grew by program area from the two pilot year programs of Automotive and CAD/Drafting to seven programs encompassing Automotive, CAD/Drafting, Child Care, Electronics, Heating/Air Conditioning, Machine Tool/CAM, and Welding.
- Accomplished some initial planning with the Area Vocational Center of the region to utilize their facilities for some of the prerequisite education.

- Coordination meetings with administrators, counselors, and staff have produced a projected enrollment from each feeder district in FY'93.
- The Elgin Chamber of Commerce has actively supported the Tech Prep concept. They have formed a Tech Prep Advisory Council that has been meeting monthly and have targeted a marketing thrust as a major goal.
- Plans of the advisory group are to encourage more scholarships and promote a summer internship work experience for all the Tech Prep graduates.
- Two area meetings for promotion of integration, and a two-day workshop for Applied Math and Science, have been held during this fiscal year.
- Guidance staff have met as a total group and at the sites to address Tech Prep.
- The Tech Prep management team has given presentations relating to the Elgin Tech Prep Program at the National Tech Prep Convention in Dallas, Texas, the American Association of Higher Education in San Diego, California, and the League for Innovation 2000 Conference for Community Colleges in Chicago, Illinois.
- Two meetings have been conducted with representatives of Northern Illinois University to facilitate a non-penalized flow-through for Tech Prep students interested in baccalaureate programs. No decision has been made.
- 86 students have enrolled for FY'93 in 11 of the 18 offerings

Products Delivered:

- 39 students successfully completed the FY'92 school year and were awarded certificates. This represents a 290% increase in completions from the pilot year.
- 69% of these graduating seniors indicated they plan to return to ECC for completion of their associate degree program. (64% for the same program, and 5% for a different program)
- 8,000 marketing brochures were developed, tailored to each school district, and distributed to incoming freshmen students and their parents.
- 2,000 handbooks for the Tech Prep students were developed during the year for distribution to the enrolled Tech Prep seniors.
- Guidance 4-year planning sheets for each of the seven Tech Prep programs were developed and provided to each district's Counseling unit.
- Two other school districts signed joint agreements for Tech Prep participation, bringing the total to four, which now gives us total high school district involvement.

MAJOR ACCOMPLISHMENTS AND SIGNIFICANT FINDINGS OF THE PROJECT

GOAL #1

This project will continue to implement, evaluate, and revise the model Advanced Technology Partnership between ECC and District #300 (three high schools) and to integrate academic and technical skills in Tech Prep education that are cost-effective and sequenced.

During FY'92, 43 students enrolled in the Tech Prep program component at Elgin Community College. This component is a segment whereby students attend the community college one-half day for the complete year, and earn between 12-17 college credits, depending on their respective program. Students enrolled from District #300 and District #303 in seven different programs.

39 of these students successfully completed the school year in seven programs of the eighteen available to them. 69% of these students indicated they plan to continue their programs at ECC during FY'93.

The students' evaluation of the program was quite positive, and they enjoyed being mainstreamed with older adults. Many of the graduates indicated that we should do more to coordinate the college segment with the high school staff to enhance the three semesters of prerequisites. (This will become a major goal for FY'93) Other components of the evaluative process indicated considerable support from the high school counselors and from the parents of the seniors.

Efforts to encourage integration of math, science, communications, and technology are also beginning to show. Most of the students have had appropriate math and science courses to allow for success.

It should be noted that approximately 40% of these returning students seeking the associate degree would probably never have attended the community college if not for the Tech Prep program.

Also significant to this partnership is the economic savings to the taxpayers because they do not have to purchase and maintain expensive duplicate laboratory facilities for upper level skill development.

In the area of revision, two very important processes will be developed based on the FY91 outcomes. Considerable in-service for high school and community college staff will be a priority for FY'93 and additional screening or testing will occur to make sure the student is placed in the most appropriate educational level to avoid duplication or failure.

GOAL #2

This project will be expanded to include five additional high schools in three school districts to strengthen Tech Prep education in the #509 District.

The remaining two high school districts within the Elgin Community College system signed joint agreements to participate in Tech Prep for FY'93. These are district #301 - Burlington and District U-46 - Elgin. Elgin will enroll students in five areas who have met the prerequisites, and Burlington will enroll students in four different programs.

The Tech Prep staff has already started working with these two districts relating to staff development, curricula, and integration of learning. It is encouraging to the project to also note an emphasis on integrated teaching also being promoted by the professional associations of math and science.

GOAL #3

This project will articulate high school courses with community college courses and state university courses to allow students in a Tech Prep track to have the best of both worlds.

This continues to be the least successful goal for this site. Articulation is, and has been, ongoing with various universities. But a total commitment to accept, without reservations, the Tech Prep student, does not appear to be visible. Many community college instructors are able to individually promote articulation for their programs through personal agreements, but we would prefer some type of blanket acceptance. DAVTE and ICCB need to make this a major goal, which of course, would make it much easier.

GOAL #4

This project will continue soliciting input from local business and industry to develop specific credentials needed in the community. In addition, it will be the intent of this program to continue soliciting internships and experimental learning opportunities for students enrolled in the program.

This year has been a significant year as it relates to input from local business and industry. We have a very active advisory group with a scope and perspective of the business and industry needs of this area that surpasses our greatest desires. They are active in marketing Tech Prep, promoting internship, and are very instrumental in encouraging financial aid assistance. Within the past two months, they have convinced the Rotary Club and local businesses to provide five scholarships for Tech Prep students.

They meet with Guidance personnel and communicate directly with site administration. We are looking forward to these developments as we look to FY'93.

GOAL #5

This project will disseminate successful components throughout Illinois to address the state-wide need of a better prepared work force while maximizing vocational education preparation and training resources.

The management of this Tech Prep site has been active in distributing materials both locally and nationally, in addition to making three presentations to national audiences throughout FY'92.

Principles of technology continues to grow in the feeder systems and in-service programs aligned to integration of subject matter have been more visible during FY'92.

Starting a program with students has allowed us to observe and synthesize components that would be necessary to develop as time progressed.

We believed prerequisite enrollments in heretofore dying programs would begin to increase if the capstone programs were perceived by students as worthwhile. This has started to happen in our pilot district, District #300. In addition to this, we now see clearly the areas where in-service is needed, where marketing is needed, and where assessment can be of value.

EVALUATION AND IMPACT

- Cost-effectively maximizes the use of very expensive labs and equipment - equipment that is changing faster than individual secondary schools can economically accommodate.
- Provides realistic college training for students who previously could not achieve in modern technology education for lack of economic foundation.
- Allows feeder districts to provide less costly prerequisites that are integrated with academics.
- Provides secondary teachers opportunities to develop and teach to a specific level of responsibility rather than attempting to teach multiple levels at the same time.
- Allows for all students to enroll in a capstone program, especially in districts with insufficient enrollment to run an advanced class.
- Provides a long range career development system that is uninterrupted and is not redundant.
- Allows for students to have input into the development and the successes.
- Allows the community to have on-going input to produce a potential employee, skilled to meet their modern work-force needs without additional expensive training.
- Encourages necessary student remediation during the prerequisite years as opposed to remediation after high school, which heretofore has not been extremely successful.

- Allows students an exposure to college life and to a college mode of learning, while acquiring skills in order to make realistic choices about additional education and careers.

RESOURCE LISTING

MATERIAL RESOURCES

None

HUMAN RESOURCES

A - PAID PARTICIPANTS

1. Lloyd Cundiff - Coordinator of Tech Prep
2. Jane Russell - Secretary (1/2 time) to Tech Prep Coordinator
3. Corridor Partnership for Excellence in Education

B - UNPAID PARTICIPANTS

1. Dr. Don Kinzy - Tech Prep Director and Dean of Math, Science, and Advanced Technologies at ECC
2. Dr. Paul Heath - President of ECC
3. Dr. Charles Rorie - Vice Pres. of Instruction at ECC
4. Eric Larson - Dean of Business Education at ECC
5. Polly Nash-Wright - Dean of Liberal Arts and General Education at ECC
6. Dr. Joseph Scime - Superintendent of District #300
7. Dr. Norm Wetzel - Ass't Superintendent of Dist. #300
8. Mr. Fred Fox - Vocational Director for District #300
9. Dr. John Vanko - Superintendent of District #303
10. Dr. Fran Kostel - Principal in District #303, St. Charles High School
11. Maggie Brewner - Vocational Director in District #303
12. Dr. Richard Wiggall - Superintendent of District #U-46
13. Mrs. Jan Lockery - Curriculum Dir. in District #U-46
14. Mrs. Barbara Bonner - District #U-46 Vocational Director and Northern Kane Regional Director
15. Renata Matthaeus - Principal in District #U-46, Larkin High School
16. Ronnie Kordick - Applied Arts Divisional Chair, District #U-46, Larkin High School
17. Jean Bowen - Guidance Divisional Chair, District #U-46, Larkin High School
18. Judy Jobe - Dean of Student Support Services at ECC
19. Russ Fahrner - Admissions Advisor/Career Fest Director at ECC
20. Carole Akemann - Director of Public Information at ECC
21. Kathy Watkins - Fox Valley Career Center
22. Ed Kelly - President of the Elgin Chamber of Commerce

PROBLEMS

1. Did not achieve progress desired for articulation to 4-year institutions
2. Difficult to enroll students with equal prerequisites, even within the districts. A system that is uniform will be a major goal
3. District #303 - St. Charles is very slow in developing enrollments, even though they are committed. Will work with different personnel, and the advisory council will attempt to assist.
4. Plans must be developed for enrollments larger than anticipated or larger than facilities will accommodate
5. Coordination between different areas, different sites, and different subject matter deans who represent different areas of Tech Prep sometimes difficult. An orientation meeting for FY'93 students and their parents will include above personnel as one attempt to remediate the communication problem

CONCLUSIONS AND RECOMMENDATIONS

Registering students, issuing textbooks and supplies, billing, grading procedures, transcript releases, tours, and communication problems grow with each new district and present new challenges that will be met. Considerable in-service with faculty, and between different levels of faculty, will be necessary in FY'93.

Students are extremely positive about the program which contributes to the success.

- Utilization of advisory personnel and involving parents during FY'93 is perceived to be a worthwhile goal
- Extreme praise has been voiced by recipients of our printed materials, both locally, and nationally
- Major emphasis will be devoted to in-service and curricula development
- Work experience following the senior year component will be a priority
- Continuous efforts at integrating curricula and teaching will also be an ongoing priority
- Greater involvement by site principals will be a major thrust
- As noted by the increase in enrollment and the visible support from business and industry, the program is perceived as very successful and a much needed initiative in communities where vocational education is in various modes of difficulty

PUBLICITY

See enclosures

TECH PREP

TECH PREP DEGREE

FOUR YEAR PLAN

AUTOMOTIVE

NAME _____ PHONE _____

EDUCATIONAL GOAL _____

CAREER GOAL _____

YEAR #1	YEAR #2	YEAR #3	YEAR #4
ENGLISH_____	ENGLISH_____	ENGLISH_____	ENGLISH_____
PE 961	PE 962	PE 963	PE 964
MATH_____	MATH_____	*Math_____	(Appl Com 151)
SCIENCE_____	*Science_____	*Physics 452	**_____
WORLD HISTORY_____	(ECON_____) (GOV 'T_____)	US HISTORY_____	Elgin Community College 12:30-2:30 pm
**_____	(Intro to Auto 700	(Auto Tech II & III -701/702)	FALL - **AUT 152/160** SPRING - **AUT 163/290**
**_____	**_____	**_____	Return to Home School by 3 pm

(Semester Courses)

Prerequisites for ECC courses

NOTE: Turn page over for ECC course titles.
ECC course descriptions in curriculum guide.

RECOMMENDED ELECTIVES - (Intro to Welding 717); (Intro to Electricity 709); (Keyboarding 641); (Word Processing 644).

Applied Communications 151 is a program requirement to be completed in the 11th or 12th grade. Students enrolled in Advanced or Honors Language Arts are not required to take Applied Communications.

Courses required for graduation from District 300 are in ALL CAPITAL LETTERS. One year of art, music, foreign language, or vocational education is also required.

*Denotes additional courses, required for admission into Illinois public universities effective Fall, 1993. Two years of art, music, foreign language, or vocational education are also required.

**Open Elective - These courses can be used to satisfy Illinois public universities' entry criteria.

PARENT'S SIGNATURE _____

BEST COPY AVAILABLE

TECH PREP

TECH PREP – A.A.S. DEGREE

AUTOMOTIVE TECHNOLOGY

HIGH SCHOOL PROGRAM

This Program Emphasizes

English - Applied Communications
Average to Above Average
Reading & Language Skills

Math
(A.A.S. Degree Preparation)

Algebra 1
Algebra 2
Geometry

Science
2 years lab science

Required Program Electives
452 Physics
700 Introduction to Auto Engines
701 Automotive Technology II
702 Automotive Technology III
151 Applied Communication

Recommended Electives
717 Introduction to Welding
709 Introduction to Electricity
641 Keyboarding
644 Word Processing

ELGIN COMMUNITY COLLEGE PROGRAMS

Associate of Applied Science Degree Program

			Credit Hours
Fall Semester			
AUT	152	Vehicle Maintenance and Tune-up	2 hrs.
AUT	160	Automotive Electricity I	6 hrs.
Spring Semester			
AUT	163	Automotive Electricity II	4 hrs.
AUT	290	Automotive Heating & Air Conditioning	5 hrs.
		TOTAL CREDITS	17 hrs.

STUDENT ENTRANCE REQUIREMENTS

Prior to Senior Year the Student Will:

1. Develop a plan to complete course requirements for Tech Prep.
2. Demonstrate a sincere interest in completing the program by continuing to:
   a. Maintain excellent attendance.
   b. Demonstrate a positive attitude in school.
   c. Complete all prerequisites for your chosen program.
   d. Keep parents informed.
3. Complete an ECC application for admission.
4. Provide data to ECC, i.e., social security number, address, phone.
5. Sign a form to release grades to school registrar and parents.
6. Plan to travel to ECC for 2 hours of classes daily.

	SECONDARY				ELGIN COMMUNITY COLLEGE	
SUBJECT	**9th**	**10th**	**11th**	**12th**	**13th**	**14th**
ENGLISH	English 1	English 2	English 3	English 4	English (6 hrs) (Comm)	
MATH	Math	Math	Math		Math (4 hrs)	
SCIENCE	Science	Science	Physics 452			
SOCIAL SCIENCE	World History	Economics / Government	U.S. History			Behavioral Sci. (3 hrs.) Liberal Ed. (3 hrs.)
PHYSICAL EDUCATION	P.E.	P.E.	P.E.	P.E.		
ELECTIVES Related Training	Fine Art Language Arts Music	Fine Art Language Arts Music	Electives (2 sem.)	Applied Communications 1 sem. elective		
TECHNICAL EMPHASIS	Required Elective (2 sem.)	Introduction to Auto. ---------- Elect.	Automotive Technology (2 sem.)	AUT 152 (ECC AUT 160 1/2 AUT 163 day) AUT 290	AUT 151 AUT 153 AUT 171 AUT 172	AUT 180 AUT 271
TOTALS				17 HRS	34 HRS	20 HRS

See an ECC catalog for description of ECC courses.

TECH PREP

TECH PREP DEGREE

FOUR YEAR PLAN

CHILD CARE (HUMAN SERVICES)

NAME _____ PHONE _____

EDUCATIONAL GOAL _____

CAREER GOAL _____

YEAR #1	YEAR #2	YEAR #3	YEAR #4
ENGLISH_____	ENGLISH_____	ENGLISH_____	ENGLISH_____
PE 961	PE 962	PE 963	PE 964
MATH_____	MATH_____	*Math_____	(Appl Com 151)
SCIENCE_____	*Science_____	*Science_____	**_____
WORLD HISTORY_____	(ECON_____) (GOV 'T_____)	US HISTORY_____	Elgin Community College 12:30-2:30 pm
**_____	(Child Care I 750)	(Child Care II & III 751/752)	FALL - **GCC 102/115** SPRING - **GCC 100-174**
**_____	**_____	**_____	Return to Home School by 3 pm

(Semester Courses)

Prerequisites for ECC courses

NOTE: Turn page over for ECC course titles.
ECC course descriptions in curriculum guide.

RECOMMENDED ELECTIVES - (Crafts 780); (Keyboarding 641); (Word Processing 644); (Psychology 271 or 272); (Sociology 261).

Applied Communications 151 is a program requirement to be completed in the 11th or 12th grade. Students enrolled in Advanced or Honors Language Arts are not required to take Applied Communications.

Courses required for graduation from District 300 are in ALL CAPITAL LETTERS. One year of art, music, foreign language, or vocational education is also required.

*Denotes additional courses, required for admission into Illinois public universities effective Fall, 1993. Two years of art, music, foreign language, or vocational education are also required.

**Open Elective - These courses can be used to satisfy Illinois public universities' entry criteria.

PARENT'S SIGNATURE _____

TECH PREP

TECH PREP – A.A.S. DEGREE

CHILD CARE / HUMAN SERVICES

HIGH SCHOOL PROGRAM

This Program Emphasizes

English - Applied Communications
Average to Above Average
Reading & Language Skills

Math
(A.A.S. Degree Preparation)

Algebra 1
Algebra 2
Geometry

Science
2 years lab science

Required Program Electives
750 Child Care I
751 Child Care II
752 Child Care III
151 Applied Communication

Recommended Electives
780 Crafts
641 Keyboarding
644 Word Processing
271/272 Psychology
261 Sociology

ELGIN COMMUNITY COLLEGE PROGRAMS

Associate of Applied Science Degree Program

			Credit Hours
Fall Semester			
GCC	102	Introduction to Early Childhood	4 hrs.
GCC	115	Activities & Programming for Pre-School	2 hrs.
Spring Semester			
GCC	100	Health & Nutrition for Children	3 hrs.
GCC	174	Growth & Development of the Young Child	2 hrs.
		TOTAL CREDITS	11 hrs.

STUDENT ENTRANCE REQUIREMENTS

Prior to Senior Year the Student Will:

1. Develop a plan to complete course requirements for Tech Prep.
2. Demonstrate a sincere interest in completing the program by continuing to:
   a. Maintain excellent attendance.
   b. Demonstrate a positive attitude in school.
   c. Complete all prerequisites for your chosen program.
   d. Keep parents informed.
3. Complete an ECC application for admission.
4. Provide data to ECC, i.e., social security number, address, phone.
5. Sign a form to release grades to school registrar and parents.
6. Plan to travel to ECC for 2 hours of classes daily.

	SECONDARY				ELGIN COMMUNITY COLLEGE	
SUBJECT	**9th**	**10th**	**11th**	**12th**	**13th**	**14th**
ENGLISH	English 1	English 2	English 3	English 4	English (6 hrs)	
MATH	Math	Math	Math			Math or
SCIENCE	Science	Science				Science (3 hrs)
SOCIAL SCIENCE	World History	Economics / Government	U.S. History		PSY 100 (3 hrs) SPH 101 (3 hrs)	Behavioral Sci. (3 hrs.) Liberal Ed. (3 hrs.)
PHYSICAL EDUCATION	P.E.	P.E.	P.E.	P.E.		
ELECTIVES Related Training	Fine Art Language Arts Music	Fine Art Language Arts Music	Electives (2 sem.)	Applied Communications 1 sem. elective		Human Service Elective (10 hrs) PHR 102
TECHNICAL EMPHASIS	CHILD CARE I	CHILD CARE II	CHILD CARE III	GCC 102 GCC 115 GCC 100 GCC 174 (ECC 1/2 day)	HUS 101 HUS 110 HUS 102 HUS 205 GCC 116 HUS 201	GCC 204 HUS 202
TOTALS				11 HRS	34 HRS	20 HRS

See an ECC catalog for description of ECC courses.

TECH PREP

TECH PREP DEGREE

FOUR YEAR PLAN

COMPUTER AIDED DESIGN / DRAFTING

NAME_____ PHONE_____

EDUCATIONAL GOAL _____

CAREER GOAL _____

YEAR #1	YEAR #2	YEAR #3	YEAR #4
ENGLISH_____	ENGLISH_____	ENGLISH_____	ENGLISH_____
PE 961	PE 962	PE 963	PE 964
MATH_____	MATH_____	*Math_____	(Appl Com 151)
SCIENCE_____	*Science_____	*Physics 452	**_____
WORLD HISTORY_____	(ECON_____) (GOV 'T_____)	US HISTORY_____	Elgin Community College 12:30-2:30 pm
**_____	(Intro to Drafting 704)	(Drafting Tech II & III 705/706)	FALL - **DFT 101/CAD 105** SPRING - **DFT 102/CAD 111**
**_____	**_____	**_____	Return to Home School by 3 pm

(Semester Courses)

Prerequisites for ECC courses

NOTE: Turn page over for ECC course titles.
ECC course descriptions in curriculum guide.

RECOMMENDED ELECTIVES - (Intro to Machine Technology 713); (Intro to Welding 717); (Intro to Electricity 709); (Intro to Plastics 720); (Keyboarding 641); (Word Processing 644).

Applied Communications 151 is a program requirement to be completed in the 11th or 12th grade. Students enrolled in Advanced or Honors Language Arts are not required to take Applied Communications.

Courses required for graduation from District 300 are in ALL CAPITAL LETTERS. One year of art, music, foreign language, or vocational education is also required.

*Denotes additional courses, required for admission into Illinois public universities effective Fall, 1993. Two years of art, music, foreign language, or vocational education are also required.

**Open Elective - These courses can be used to satisfy Illinois public universities' entry criteria.

PARENT'S SIGNATURE _____

TECH PREP

TECH PREP – A.A.S. DEGREE

COMPUTER AIDED DESIGN / DRAFTING

HIGH SCHOOL PROGRAM

This Program Emphasizes

English - Applied Communications
Average to Above Average
Reading & Language Skills

Math
(A.A.S. Degree Preparation)

Algebra 1
Algebra 2
Geometry

Science
2 years lab science

Required Program Electives
704 Introduction to Drafting
705 Drafting Technology I
706 Drafting Technology II
452 Physics
151 Applied Communications

Recommended Electives
713 Introduction to Machine Technology
717 Introduction to Welding
709 Introduction to Electricity
720 Introduction to Plastics
641 Keyboarding
644 Word Processing

ELGIN COMMUNITY COLLEGE PROGRAMS

Associate of Applied Science Degree Program

			Credit Hours
Fall Semester			
DFT	101	Basic Technical Drawing Skills	4 hrs.
CAD	105	Introduction to Computer Graphics	3 hrs.
Spring Semester			
DFT	102	Descriptive Geometry	4 hrs.
CAD	111	Computer Graphics 3-D Modeling	3 hrs.
		TOTAL CREDITS	14 hrs.

STUDENT ENTRANCE REQUIREMENTS

Prior to Senior Year the Student Will:

1. Develop a plan to complete course requirements for Tech Prep.
2. Demonstrate a sincere interest in completing the program by continuing to:
   a. Maintain excellent attendance.
   b. Demonstrate a positive attitude in school.
   c. Complete all prerequisites for your chosen program.
   d. Keep parents informed.
3. Complete an ECC application for admission.
4. Provide data to ECC, i.e., social security number, address, phone.
5. Sign a form to release grades to school registrar and parents.
6. Plan to travel to ECC for 2 hours of classes daily.

	SECONDARY				ELGIN COMMUNITY COLLEGE	
SUBJECT	**9th**	**10th**	**11th**	**12th**	**13th**	**14th**
ENGLISH	English 1	English 2	English 3	English 4	English (6 hrs)	BUS 142 (3 hrs)
MATH	Math	Math	Math		Math (8 hrs)	
SCIENCE	Science	Science	Physics 452		PHY 105 (4 hrs)	
SOCIAL SCIENCE	World History	Economics / Government	U.S. History		Social Sci. (3 hrs.)	Liberal Ed. (3hrs.)
PHYSICAL EDUCATION	P.E.	P.E.	P.E.	P.E.		
ELECTIVES Related Training	Fine Art Language Arts Music	Fine Art Language Arts Music	Electives (2 sem.)	Applied Communications 1 sem. elective		
TECHNICAL EMPHASIS	Required Elective (2 sem.)	Introduction to DFT (1 sem.)	Drafting Technology (2 sem.)	DFT 101 CAD 105 DFT 102 CAD 111 (ECC 1/2 day)	GET 217 CAD 115 DFT 206 DFT 207 CAD 211	CAD 215 CAD 108 CAD 221 DFT 208
TOTALS				14 HRS	34 HRS	20 HRS

See an ECC catalog for description of ECC courses.

TECH PREP

TECH PREP DEGREE

FOUR YEAR PLAN

COMPUTER AIDED MANUFACTURING MACHINE TOOL

NAME_____ PHONE_____

EDUCATIONAL GOAL _____

CAREER GOAL _____

YEAR #1	YEAR #2	YEAR #3	YEAR #4
ENGLISH_____	ENGLISH_____	ENGLISH_____	ENGLISH_____
PE 961	PE 962	PE 963	PE 964
MATH_____	MATH_____	*Math_____	(Appl Com 151)
SCIENCE_____	*Science_____	*Physics 452	**_____
WORLD HISTORY_____	(ECON_____) (GOV 'T_____)	US HISTORY_____	Elgin Community College 12:30-2:30 pm
**_____	(Intro to Machine Tech 713)	(Machine Tool II & III 714/715)	FALL - **MTO 103/104** SPRING - **CAM 101/220**
**_____	**_____	**_____	Return to Home School by 3 pm

(Semester Courses)

Prerequisites for ECC courses

NOTE: Turn page over for ECC course titles.
ECC course descriptions in curriculum guide.

RECOMMENDED ELECTIVES - (Intro to Drafting 704); (Intro to Welding 717); (Intro to Electricity 709); (Intro to Plastics 720); (Keyboarding 641); (Word Processing 644).

Applied Communications 151 is a program requirement to be completed in the 11th or 12th grade. Students enrolled in Advanced or Honors Language Arts are not required to take Applied Communications.

Courses required for graduation, from District 300 are in ALL CAPITAL LETTERS. One year of art, music, foreign language, or vocational education is also required.

*Denotes additional courses, required for admission into Illinois public universities effective Fall, 1993. Two years of art, music, foreign language, or vocational education are also required.

**Open Elective - These courses can be used to satisfy Illinois public universities' entry criteria.

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PARENT'S SIGNATURE _____

TECH PREP

TECH PREP – A.A.S. DEGREE

COMPUTER AIDED MANUFACTURING / MACHINE TOOL

HIGH SCHOOL PROGRAM

This Program Emphasizes

English - Applied Communications
Average to Above Average
Reading & Language Skills

Math
(A.A.S. Degree Preparation)

Algebra 1
Algebra 2
Geometry

Science
2 years lab science

Required Program Electives
713 Introduction to Machine Technology
714 Machine Tool I
715 Machine Tool II
151 Applied Communication
452 Physics

Recommended Electives
704 Introduction to Drafting
717 Introduction to Welding
709 Introduction to Electricity
720 Introduction to Plastics
641 Keyboarding
644 Word Processing

ELGIN COMMUNITY COLLEGE PROGRAMS

Associate of Applied Science Degree Program

			Credit Hours
Fall Semester			
MTO	103	Fundamental Lathe Technology	3 hrs.
MTO	104	Milling & Grinding Technology	3 hrs.
Spring Semester			
CAM	101	Introduction to Computer Aided Programs	2 hrs.
CAM	220	Computer Aided Manufacturing I	4 hrs.
		TOTAL CREDITS	12 hrs.

STUDENT ENTRANCE REQUIREMENTS

Prior to Senior Year the Student Will:

1. Develop a plan to complete course requirements for Tech Prep.
2. Demonstrate a sincere interest in completing the program by continuing to:
   a. Maintain excellent attendance.
   b. Demonstrate a positive attitude in school.
   c. Complete all prerequisites for your chosen program.
   d. Keep parents informed.
3. Complete an ECC application for admission.
4. Provide data to ECC, i.e., social security number, address, phone.
5. Sign a form to release grades to school registrar and parents.
6. Plan to travel to ECC for 2 hours of classes daily.

	SECONDARY				ELGIN COMMUNITY COLLEGE	
SUBJECT	**9th**	**10th**	**11th**	**12th**	**13th**	**14th**
ENGLISH	English 1	English 2	English 3	English 4	English (3 hrs) (Comm)	Comm (3 hrs)
MATH	Math	Math	Math		MTO 106 MTH 107 or MTH 109	
SCIENCE	Science	Science	Physics 452			
SOCIAL SCIENCE	World History	Economics / Government	U.S. History			Behavioral Sci. (3 hrs.) Liberal Ed. (3 hrs.)
PHYSICAL EDUCATION	P.E.	P.E.	P.E.	P.E.		
ELECTIVES Related Training	Fine Art Language Arts Music	Fine Art Language Arts Music	Electives (2 sem.)	Applied Communications 1 sem. elective	GET 107 (2 hrs)	
TECHNICAL EMPHASIS	Required Elective (2 sem.)	Introduction to Machine Tech.	Machine Tool Operations (2 sem.)	MTO 103 MTO 104 CAM 101 CAM 220 (ECC 1/2 day)	CAM 221 MTO 203 MTO 214 MTO 108 MTO 109 MTO 112 MTO 111	CAM 222 CAM 223 MTO 212 MTO 118 MTO 119
TOTALS				12 HRS	33 HRS	22 HRS

See an ECC catalog for description of ECC courses.

TECH PREP

TECH PREP DEGREE

FOUR YEAR PLAN

ELECTRONICS

NAME _____ PHONE _____

EDUCATIONAL GOAL _____

CAREER GOAL _____

YEAR #1	YEAR #2	YEAR #3	YEAR #4
ENGLISH_____	ENGLISH_____	ENGLISH_____	ENGLISH_____
PE 961	PE 962	PE 963	PE 964
MATH_____	MATH_____	*Math_____	(Appl Com 151)
SCIENCE_____	*Science_____	*Physics 452	**_____
WORLD HISTORY_____	(ECON_____) (GOV 'T_____)	US HISTORY_____	Elgin Community College 12:30-2:30 pm
**_____	(Intro to Electricity 709)	(Electricity II & III 710/711)	FALL - **ELS 101/105** SPRING - **ELS 102/103**
**_____	**_____	**_____	Return to Home School by 3 pm

(Semester Courses)

Prerequisites for ECC courses

NOTE: Turn page over for ECC course titles.
ECC course descriptions in curriculum guide.

RECOMMENDED ELECTIVES - (Intro to Drafting 704); (Intro to Welding 717); (Keyboarding 641); (Word Processing 644). Students who have completed Advanced Algebra with a "C" or better may enter the Tech program without Introductory Electricity, Drafting, or Welding.

Applied Communications 151 is a program requirement to be completed in the 11th or 12th grade. Students enrolled in Advanced or Honors Language Arts are not required to take Applied Communications.

Courses required for graduation from District 300 are in ALL CAPITAL LETTERS. One year of art, music, foreign language, or vocational education is also required.

*Denotes additional courses, required for admission into Illinois public universities effective Fall, 1993. Two years of art, music, foreign language, or vocational education are also required.

**Open Elective - These courses can be used to satisfy Illinois public universities' entry criteria.

PARENT'S SIGNATURE _____

TECH PREP

TECH PREP – A.A.S. DEGREE

ELECTRONICS TECHNOLOGY

HIGH SCHOOL PROGRAM

This Program Emphasizes

English - Applied Communications
Average to Above Average
Reading & Language Skills

Math
(A.A.S. Degree Preparation)

Algebra 1
Algebra 2
Geometry

Science
2 years lab science

Required Program Electives
709 Introduction to Electricity
710 Electricity II
711 Electricity III
and/or
320 Algebra
360 Intermediate Algebra
340 Geometry
plus
452 Physics
151 Applied Communications

Recommended Electives
704 Intro to Drafting
717 Intro to Welding
641 Keyboarding
644 Word Processing

ELGIN COMMUNITY COLLEGE PROGRAMS

Associate of Applied Science Degree Program

			Credit Hours
Fall Semester			
ELS	101	DC Fundamentals	5 hrs.
ELS	105	Test Equipment & Fabrication	2 hrs.
Spring Semester			
ELS	103	AC Circuit Analysis	2 hrs.
ELS	102	Semi-Conductors	4 hrs.
		TOTAL CREDITS	13 hrs.

STUDENT ENTRANCE REQUIREMENTS

Prior to Senior Year the Student Will:

1. Develop a plan to complete course requirements for Tech Prep.
2. Demonstrate a sincere interest in completing the program by continuing to:
   a. Maintain excellent attendance.
   b. Demonstrate a positive attitude in school.
   c. Complete all prerequisites for your chosen program.
   d. Keep parents informed.
3. Complete an ECC application for admission.
4. Provide data to ECC, i.e., social security number, address, phone.
5. Sign a form to release grades to school registrar and parents.
6. Plan to travel to ECC for 2 hours of classes daily.

	SECONDARY				ELGIN COMMUNITY COLLEGE	
SUBJECT	**9th**	**10th**	**11th**	**12th**	**13th**	**14th**
ENGLISH	English 1	English 2	English 3	English 4		English/ Comm (6 hrs)
MATH	Math	Math	Math*		Math (8 hrs)	
SCIENCE	Science	Science	Physics 452		PHY 105 (4 hrs)	
SOCIAL SCIENCE	World History	Economics / Government	U.S. History		Speech (3 hrs)	Behavioral Sci. (3 hrs.) Liberal Ed. (3 hrs.)
PHYSICAL EDUCATION	P.E.	P.E.	P.E.	P.E.		
ELECTIVES Related Training	Fine Art Language Arts Music	Fine Art Language Arts Music	Electives (2 sem.)	Applied Communications 1 sem. elective*		
TECHNICAL EMPHASIS	Required Elective (2 sem.)	Introduction Elect.	Intro to Drafting & Welding (2 sem)	ELS 101 ELS 105 ELS 102 ELS 103 (ECC 1/2 day)	ELS 201 ELS 205 ELS 211 ELS 215	EDP 124 ELS 214 ELS 217 ELS 242
TOTALS				13 HRS	31 HRS	23 HRS

See an ECC catalog for description of ECC courses.

TECH PREP

TECH PREP DEGREE

FOUR YEAR PLAN

HEATING, AIR CONDITIONING, & REFRIGERATION

NAME _____ PHONE _____

EDUCATIONAL GOAL _____

CAREER GOAL _____

YEAR #1	YEAR #2	YEAR #3	YEAR #4
ENGLISH_____	ENGLISH_____	ENGLISH_____	ENGLISH_____
PE 961	PE 962	PE 963	PE 964
MATH_____	MATH_____	*Math_____	(Appl Com 151)
SCIENCE_____	*Science_____	*Physics 452	**_____
WORLD HISTORY_____	(ECON_____) (GOV 'T_____)	US HISTORY_____	Elgin Community College 12:30-2:30 pm
**_____	(Intro to Electricity 709)	(Intro to DFT 704) (Intro to WEL 717)	FALL - **HAC 101/GET 114** SPRING - **HAC 102/103**
**_____	**_____	**_____	Return to Home School by 3 pm

(Semester Courses)

Prerequisites for ECC courses

NOTE: Turn page over for ECC course titles.
ECC course descriptions in curriculum guide.

RECOMMENDED ELECTIVES - (Keyboarding 641); (Word Processing 644).

Applied Communications 151 is a program requirement to be completed in the 11th or 12th grade. Students enrolled in Advanced or Honors Language Arts are not required to take Applied Communications.

Courses required for graduation from District 300 are in ALL CAPITAL LETTERS. One year of art, music, foreign language, or vocational education is also required.

*Denotes additional courses, required for admission into Illinois public universities effective Fall, 1993. Two years of art, music, foreign language, or vocational education are also required.

**Open Elective - These courses can be used to satisfy Illinois public universities' entry criteria.

PARENT'S SIGNATURE _____

TECH PREP

TECH PREP – A.A.S. DEGREE

HEATING, AIR CONDITIONING, AND REFRIGERATION

HIGH SCHOOL PROGRAM

This Program Emphasizes

English - Applied Communications
Average to Above Average
Reading & Language Skills

Math
(A.A.S. Degree Preparation)

Algebra 1
Algebra 2
Geometry

Science
2 years lab science

Required Program Electives
709 Introduction to Electricity
704 Introduction to Drafting
717 Introduction to Welding
151 Applied Communication
452 Physics

Recommended Electives
641 Keyboarding
644 Word Processing

ELGIN COMMUNITY COLLEGE PROGRAMS

Associate of Applied Science Degree Program

			Credit Hours
Fall Semester			
HAC	101	Air Conditioning & Refrigeration	3 hrs.
GET	114	Electrical Controls	3 hrs.
Spring Semester			
HAC	102	Air Conditioning & Refrigeration II	4 hrs.
HAC	103	Basic Heating, Gas & Oil	3 hrs.
		TOTAL CREDITS	13 hrs.

STUDENT ENTRANCE REQUIREMENTS

Prior to Senior Year the Student Will:

1. Develop a plan to complete course requirements for Tech Prep.
2. Demonstrate a sincere interest in completing the program by continuing to:
   a. Maintain excellent attendance.
   b. Demonstrate a positive attitude in school.
   c. Complete all prerequisites for your chosen program.
   d. Keep parents informed.
3. Complete an ECC application for admission.
4. Provide data to ECC, i.e., social security number, address, phone.
5. Sign a form to release grades to school registrar and parents.
6. Plan to travel to ECC for 2 hours of classes daily.

	SECONDARY				POST SECONDARY	
SUBJECT	**9th**	**10th**	**11th**	**12th**	**13th**	**14th**
ENGLISH	English 1	English 2	English 3	English 4		Comm (6 hrs)
MATH	Math	Math	Math		MTH 111 (4 hrs)	
SCIENCE	Science	Science	Physics 452			
SOCIAL SCIENCE	World History	Economics / Government	U.S. History		Behavioral Sci. (3 hrs)	Liberal Ed. (3 hrs)
PHYSICAL EDUCATION	P.E.	P.E.	P.E.	P.E.		
ELECTIVES Related Training	Fine Art Language Arts Music	Fine Art Language Arts Music	Electives (2 sem.)	Applied Communications 1 sem. elective	HAC 111 HAC 108	Industrial Tech. Elective (3 hrs)
TECHNICAL EMPHASIS	Required Elective (2 sem.)	Introduction Electricity	Intro to Drafting & Welding	HAC 101 GET 114 HAC 102 HAC 103 (ECC 1/2 day)	DFT 236 HAC 104 HAC 105 HAC 109 HAC 110 WEL 101 HAC 106	HAC 107 HAC 112
TOTALS				13 HRS	34 HRS	19 HRS

See an ECC catalog for description of ECC courses.

TECH PREP

TECH PREP DEGREE

FOUR YEAR PLAN

WELDING

NAME _____ PHONE _____

EDUCATIONAL GOAL _____

CAREER GOAL _____

YEAR #1	YEAR #2	YEAR #3	YEAR #4
ENGLISH_____	ENGLISH_____	ENGLISH_____	ENGLISH_____
PE 961	PE 962	PE 963	PE 964
MATH_____	MATH_____	*Math_____	(Appl Com 151)
SCIENCE_____	*Science_____	*Physics 452	**_____
WORLD HISTORY_____	(ECON_____) (GOV 'T_____)	US HISTORY_____	Elgin Community College 12:30-2:30 pm
**_____	(Intro to WEL 717)	(Welding II 718) (Welding III 719)	FALL - **WEL 101/102** SPRING - **WEL 208/214**
**_____	**_____	**_____	Return to Home School by 3 pm

(Semester Courses)

Prerequisites for ECC courses

NOTE: Turn page over for ECC course titles.
ECC course descriptions in curriculum guide.

RECOMMENDED ELECTIVES - (Intro to Machine Technology 713); (Keyboarding 641); (Word Processing 644).

Applied Communications 151 is a program requirement to be completed in the 11th or 12th grade. Students enrolled in Advanced or Honors Language Arts are not required to take Applied Communications.

Courses required for graduation from District 300 are in ALL CAPITAL LETTERS. One year of art, music, foreign language, or vocational education is also required.

*Denotes additional courses, required for admission into Illinois public universities effective Fall, 1993. Two years of art, music, foreign language, or vocational education are also required.

**Open Elective - These courses can be used to satisfy Illinois public universities' entry criteria.

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PARENT'S SIGNATURE _____

TECH PREP

TECH PREP – A.A.S. DEGREE

WELDING FABRICATION TECHNOLOGY

HIGH SCHOOL PROGRAM

This Program Emphasizes

English - Applied Communications
Average to Above Average
Reading & Language Skills

Math
(A.A.S. Degree Preparation)

Algebra 1
Algebra 2
Geometry

Science
2 years lab science

Required Program Electives
717 Introduction to Welding
718 Welding II
719 Welding III
452 Physics
151 Applied Communication

Recommended Electives
713 Introduction to Machine Technology
641 Keyboarding
644 Word Processing

ELGIN COMMUNITY COLLEGE PROGRAMS

Associate of Applied Science Degree Program

			Credit Hours
Fall Semester			
WEL	101	Welding I	2hrs.
WEL	102	Welding II	4 hrs.
Spring Semester			
WEL	214	Cutting Processes	2 hrs.
WEL	208	Welding III	4 hrs.
		TOTAL CREDITS	12 hrs.

STUDENT ENTRANCE REQUIREMENTS

Prior to Senior Year the Student Will:

1. Develop a plan to complete course requirements for Tech Prep.
2. Demonstrate a sincere interest in completing the program by continuing to:
   a. Maintain excellent attendance.
   b. Demonstrate a positive attitude in school.
   c. Complete all prerequisites for your chosen program.
   d. Keep parents informed.
3. Complete an ECC application for admission.
4. Provide data to ECC, i.e., social security number, address, phone.
5. Sign a form to release grades to school registrar and parents.
6. Plan to travel to ECC for 2 hours of classes daily.

	SECONDARY				ELGIN COMMUNITY COLLEGE	
SUBJECT	**9th**	**10th**	**11th**	**12th**	**13th**	**14th**
ENGLISH	English 1	English 2	English 3	English 4	English (6 hrs)	
MATH	Math	Math	Math		Math (3 hrs)	
SCIENCE	Science	Science	Physics 452			
SOCIAL SCIENCE	World History	Economics / Government	U.S. History			Behavioral Sci. (3 hrs.) Liberal Ed. (3 hrs.)
PHYSICAL EDUCATION	P.E.	P.E.	P.E.	P.E.		
ELECTIVES Related Training	Fine Art Language Arts Music	Fine Art Language Arts Music	Electives (2 sem.)	Applied Communications 1 sem. elective	Industrial Tech Elective (5 hrs)	
TECHNICAL EMPHASIS	Required Elective (2 sem.)	Introduction to Welding	WEL II WEL III	WEL 101 WEL 102 WEL 208 WEL 214	WEL 111 WEL 112 WEL 113 WEL 120 WEL 216 WEL 221 MTO 103	WEL 210 WEL 215 MTO 212
TOTALS				12 HRS	32 HRS	16 HRS

See an ECC catalog for description of ECC courses.